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**Notes Questions for the Unit 11, Part 1 Notes: DNA History, Structure, and Replication**

Ms. Ottolini, AP Biology

1. Explain the difference between the leading and lagging strand during DNA replication. Draw a picture showing the creation of two new DNA strands as the parent double helix opens and forms a replication fork.
2. Explain the difference between the semiconservative, conservative, and dispersive hypotheses of DNA replication. Which is correct?
3. If the amount of adenine in DNA molecule is 17%, how much guanine is present?
4. Explain the meaning of the following statement: “The two strands of DNA run antiparallel to one another.”
5. Identify the role of the following enzymes in DNA replication: helicase, primase, DNA polymerase, and ligase.